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PCT #3

PATENT

Attorney Docket No. 0180.0043

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**Serial No.** 10/521,632 ✓  
**Filed:** January 20, 2005  
**Title:** Monitoring Molecular  
Interactions Using Arrival-Time  
Interval Distribution Analysis  
**Applicant:** Laurence, et al.  
**Group Art Unit:** n/a  
**Examiner:** n/a

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In recognition of the continuing duty to disclose all relevant and material information of which they are aware, applicants direct the Examiner's attention to the attached PTO Form SB/08A. Copies of all non - US Patent citations are enclosed.

Dated: September 22, 2005

Respectfully submitted,

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PTO/SB/08A (08-03)

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Sheet 1 of 9

Application Number	10/521,632
Filing Date	Jan. 20, 2005
First Named Inventor	Laurence, et al.
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	0180.0043

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)				
		US-	2002/0008211 A1	01/24/02	Kask	
		US-	6,137,584	06/04/98	Seider	
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**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		WO 98/57150	12/17/98			
		WO 99/21063	04/29/99			

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	23	Chen, Y., et al., <i>The photon counting histogram in fluorescence fluctuation spectroscopy</i> . Biophys. J., 1999. 77(1): p. 553-67.	
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	65	Eigen, M. and R. Rigler, <i>Sorting Single Molecules - Application to Diagnostics and Evolutionary Biotechnology</i> . Proc. Natl. Acad. Sci. U.S.A., 1994. 91(13): p. 5740-5747.	
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STATEMENT BY APPLICANT**

(use as many sheets as necessary)

## Complete if Known

Sheet 8 of 9

Application Number	10/521,632
Filing Date	Jan. 20, 2005
First Named Inventor	Laurence, et al.
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	0180.0043

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	67	Widengren, J. and P. Schwill, <i>Characterization of photoinduced isomerization and back-isomerization of the cyanine dye Cy5 by fluorescence correlation spectroscopy</i> . J. Phys. Chem. A., 2000. 104(27): p. 6416-6428.	
	68	Hess, S.T. and W.W. Webb, <i>Focal volume optics and experimental artifacts in confocal fluorescence correlation spectroscopy</i> . Biophys. J., 2002. 83(4): p. 2300-17.	
	69	Deniz, A.A., et al., <i>Single-molecule protein folding: diffusion fluorescence resonance energy transfer studies of the denaturation of chymotrypsin inhibitor 2</i> . Proc. Natl. Acad. Sci. U.S.A., 2000. 97(10): p. 5179-84.	
	70	Dittrich, P.S. and P. Schwill, <i>Photobleaching and stabilization of fluorophores used for single-molecule analysis with one- and two-photon excitation</i> . Applied Physics B-Lasers and Optics, 2001. 73(8): p. 829-837.	
	71	Hebert, T.E. and M. Bouvier, <i>Structural and functional aspects of G protein-coupled receptor oligomerization</i> . Biochem. Cell. Biol., 1998. 76(1): p. 1-11.	
	72	Hebert, T.E. and M. Bouvier, <i>Structural and functional aspects of G protein-coupled receptor oligomerization</i> . Biochem. Cell. Biol., 1998. 76(1): p. 1-11.	
	73	Bieschke, J., et al., <i>Ultrasensitive detection of pathological prion protein aggregates by dual-color scanning for intensely fluorescent targets</i> . Proc. Natl. Acad. Sci. U.S.A., 2000. 97(10): p. 5468-73.	
	74	Cohen, F.E., <i>Protein misfolding and prion diseases</i> . J. Mol. Biol., 1999. 293(2): p. 313-20.	
	75	Prusiner, S.B., <i>Prions</i> . Proc. Natl. Acad. Sci. U.S.A., 1998. 95(23): p. 13363-83.	
	76	Tjernberg, L.O., et al., <i>Amyloid beta-peptide polymerization studied using fluorescence correlation spectroscopy</i> . Chem. Biol., 1999. 6(1): p. 53-62.	
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Sheet 9 of 9

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